

Recombinant Human RAPGEF4 293 Cell Lysate

Cat. No. RAPGEF4-2520HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for Rap guanine nucleotide exchange factor (GEF) 4 (RAPGEF4), transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

[RAPGEF4 Rap guanine nucleotide exchange factor \(GEF\) 4 \[Homo sapiens \]](#)

Official Symbol

RAPGEF4

Synonyms

RAPGEF4; Rap guanine nucleotide exchange factor (GEF) 4; RAP guanine nucleotide exchange factor (GEF) 4; rap guanine nucleotide exchange factor 4; exchange protein directly activated by cAMP 2; cAMP GEFII; cAMP regulated guanine nucleotide exchange factor II; CGEF2; EPAC 2; putative protein product of Nbla00496; exchange factor directly activated by cAMP 2; RAP guanine-nucleotide-exchange factor (GEF) 4; cAMP-regulated guanine nucleotide exchange factor II; EPAC2; Nbla00496; CAMP-GEFII;

Gene ID

[11069](#)

mRNA Refseq

[NM_001100397](#)

Protein Refseq

[NP_001093867](#)

MIM

[606058](#)

UniProt ID

[Q8WZA2](#)

**Chromosome
Location**

2q31-q32

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Pathway

Adaptive Immune System, organism-specific biosystem; Hemostasis, organism-specific biosystem; Immune System, organism-specific biosystem; Integration of energy metabolism, organism-specific biosystem; Integrin alphaIIb beta3 signaling, organism-specific biosystem; Integrin cell surface interactions, organism-specific biosystem; Leukocyte transendothelial migration, organism-specific biosystem;

Function

Ras GTPase binding; Ras guanyl-nucleotide exchange factor activity; cAMP binding; cAMP-dependent protein kinase regulator activity; guanyl-nucleotide exchange factor activity; nucleotide binding; protein complex binding;

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